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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,361	08/27/2003	Mart Saarma	0933-0210P	3435
2292 7590 11/16/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
			MARVICH, MARIA	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
•			1633	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	10/648,361 Examiner	SAARMA ET AL.	
Office Action Summary	Evaminar	SAARMA ET AL.	
	Examiner	Art Unit	
	Maria B. Marvich, PhD	1633	
The MAILING DATE of this communication ap Period for Reply	. 1	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e. cause the application to become ABAN	TION. be timely filed S from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) ⊠ Responsive to communication(s) filed on 26 (comparison of the section is FINAL . 2b) ⊠ This action is FINAL . 2b) ⊠ This action is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters	·	
Disposition of Claims			
4)	er. cepted or b) objected to by drawing(s) be held in abeyance ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	its have been received. Its have been received in Applority documents have been received in the control of the	lication No ceived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/N	mary (PTO-413) fail Date mal Patent Application	

Continuation of Attachment(s) 6). Other: Score search results alignment .

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DETAILED ACTION

This office action is in response to an amendment after final filed 10/26/07. The amendment has been entered. Claims 1-26 have been cancelled. Claims 27-30 are pending in this application.

Claim Objections

Claim 28 is objected to because of the following informalities: in claim 28, a period --.-- following the phrase "amino acid sequence of SEQ ID NO:2" is missing.

Appropriate correction is required.

Claim Rejections - 35 USC § 112, first paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 30 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The limitation that the method of producing mature MANF2 comprises growing cells comprising nucleic acid encoding SEQ ID NO:2 that is produced "and cleaved by a signal peptidase between amino acids position 26 and 27" in the cell. Applicant has stated that support for this limitation is found in the specification specifically in example 6, which teaches that the

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signal sequence is cleaved between amino acid 26 and 27. However, examiner has been unable to find support in the originally filed specification or example 6 for a step of amino acids 1-26 being cleaved by a signal peptidase. Furthermore, only mammalian cells COS have demonstrated the ability to produce a protein that is modified by cleavage of the first 26 amino acids. The specification teaches that cleavage of the homologous signal sequence is detected following transfection of the full-length nucleic acid into COS 7 cells and this reaction is the consequence of cellular factors that mediate the reaction. That these cellular factors are signal peptidase and that cells other then mammalian cells possess this ability are not disclosed. Therefore, the limitation that the method of producing a polypeptide results from transfection, growth and cleavage by a signal peptidase between amino acids position 26 and 27 is impermissible NEW MATTER.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim27 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Rosen et al (20060057582; see entire document).

Rosen et al teach an isolated sequence comprising SEQ ID NO:2 (see e.g. SEQ ID NO:286 and 203). As well, Rosen et al teach methods of producing the peptide (¶0007).

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Conclusion

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach, PhD can be reached on (571)-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Maria B Marvich, PhD

Examiner

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